

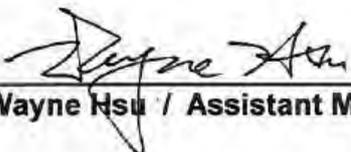
# FCC Test Report

**Equipment** : Personal Computer  
**Brand Name** : SONY  
**Model No.** : SVF13NA1UL  
**FCC ID** : AK8SVF13NA1UL  
**Standard** : 47 CFR FCC Part 15.247  
**Operating Band** : 5725 MHz – 5850 MHz  
**FCC Classification** : DTS  
**Applicant** : Sony Corporation  
**Manufacturer** : 1-7-1 Konan, Minato-ku, Tokyo 108-0075, Japan  
**RF Module** : Intel / 7260NGW AN

The product sample received on Aug. 08, 2013 and completely tested on Nov. 08, 2013. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2009 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by:

  
Wayne Hsu / Assistant Manager





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### Summary of Test Result

Conformance Test Specifications					
Report Clause	Ref. Std. Clause	Description	Measured	Limit	Result
1.1.1	15.247(b)	RF Output Power (Maximum Peak Conducted Output Power)	Power [dBm]:19.93	Power [dBm]:30	Complied
1.1.2	15.203	Antenna Requirement	Antenna connector mechanism complied	FCC 15.203	Complied
3.1	15.247(c)	Transmitter Bandedge Emissions	Non-Restricted Bands: 5723.80MHz: 26.56dB	Non-Restricted Bands: > 20 dBc Restricted Bands: FCC 15.209	Complied
3.2	15.247(c)	Transmitter Radiated Unwanted Emissions	Restricted Bands [dBuV/m at 3m]: 71.710MHz 35.73 (Margin 4.27dB) - PK	Non-Restricted Bands: > 20 dBc Restricted Bands: FCC 15.209	Complied



# 1 General Description

## 1.1 Information

### 1.1.1 RF General Information

RF General Information						
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N <sub>TX</sub> )	RF Output Power (dBm)	Co-location
5725-5850	a	5745-5825	149-165 [5]	1	19.79	Yes
5725-5850	n (HT20)	5745-5825	149-165 [5]	1	19.93	Yes
5725-5850	n (HT20)	5745-5825	149-165 [5]	2	16.91	Yes
5725-5850	n (HT40)	5755-5795	151-159 [2]	1	19.69	Yes
5725-5850	n (HT40)	5755-5795	151-159 [2]	2	16.92	Yes

Note 1: RF output power specifies that Maximum Peak Conducted Output Power.  
 Note 2: 802.11a/n uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.  
 Note 3: Co-location, Co-location is generally defined as simultaneously transmitting (co-transmitting) antennas within 20 cm of each other. (i.e., EUT has simultaneously co-transmitting that operating 2.4GHz and 5GHz.)

### 1.1.2 Antenna Information

Antenna Category	
<input checked="" type="checkbox"/>	Integral antenna (antenna permanently attached)
<input checked="" type="checkbox"/>	Temporary RF connector provided
<input type="checkbox"/>	No temporary RF connector provided Transmit chains bypass antenna and soldered temporary RF connector provided for connected measurement. In case of conducted measurements the transmitter shall be connected to the measuring equipment via a suitable attenuator and correct for all losses in the RF path.

Antenna General Information			
Antenna Port	Ant. Cat.	Ant. Type	Gain (dBi)
1	Integral	PIFA	1.07
2	Integral	PIFA	0.18

Reminder: The EUT was pre-tested Antenna Port 1 and Antenna Port 2 for single chain, the worst case was Antenna Port 1. Therefore only the test data recorded in this report.



1.1.3 Type of EUT

Identify EUT	
EUT Serial Number	N/A
Presentation of Equipment	<input type="checkbox"/> Production ; <input type="checkbox"/> Pre-Production ; <input checked="" type="checkbox"/> Prototype
Type of EUT	
<input checked="" type="checkbox"/>	Stand-alone
<input type="checkbox"/>	Combined (EUT where the radio part is fully integrated within another device) Combined Equipment - Brand Name / Model No.:
<input type="checkbox"/>	Plug-in radio (EUT intended for a variety of host systems) Host System - Brand Name / Model No.:
<input type="checkbox"/>	Other:

1.1.4 EUT Operational Condition

Supply Voltage	<input checked="" type="checkbox"/> AC mains	<input checked="" type="checkbox"/> DC	
Type of DC Source	<input type="checkbox"/> Internal DC supply	<input checked="" type="checkbox"/> External DC adapter	<input checked="" type="checkbox"/> Li-on Battery

## 1.2 Accessories

Accessories Information				
AC Adapter	Brand Name	SONY	Model Name	VGP-AC19V73
	Power Rating	I/P: 100-240V ~ 1.0A 50/60Hz O/P1: 19.5V $\overline{\text{---}}$ 2.0A ; O/P2: 5.0V $\overline{\text{---}}$ 1.0A		
Li-ion Battery	Brand Name	SONY	Model Name	VGP-BPS41

Reminder: Regarding to more detail and other information, please refer to user manual.

## 1.3 Support Equipment

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Printer	EPSON	C61	DoC
2	(USB) Mouse	Microsoft	1004	DoC
3	Identity Badge	-	-	-
4	Wireless AP (Remote Workstation)	ASUS	RT-AC66U	MSQ-RTAC66U
5	Bluetooth Headset (Remote Workstation)	Sony Ericsson	Z354	PY7DDA-2006

## 1.4 Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ◆ 47 CFR FCC Part 15
- ◆ ANSI C63.10-2009
- ◆ FCC KDB 558074 v03r01
- ◆ FCC KDB 662911 v02

## 1.5 Testing Location Information

Testing Location				
<input checked="" type="checkbox"/>	HWA YA	ADD : No. 52, Hwa Ya 1 <sup>st</sup> Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.		
		TEL : 886-3-327-3456	FAX :	886-3-327-0973
Test Condition	Test Site No.	Test Engineer	Test Environment	
Radiated Emission Below 1GHz	03CH02-HY	Daniel	26°C / 58%	
Radiated Emission Above 1GHz	03CH02-HY	Daniel	23.3°C / 60%	



### 1.6 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

Measurement Uncertainty		
Test Item		Uncertainty
Unwanted emissions, conducted	9 – 150 kHz	±0.38 dB
	0.15 – 30 MHz	±0.42 dB
	30 – 1000 MHz	±0.51 dB
	1 – 18 GHz	±0.67 dB
	18 – 40 GHz	±0.83 dB
	40 – 200 GHz	N/A
All emissions, radiated	9 – 150 kHz	±2.49 dB
	0.15 – 30 MHz	±2.28 dB
	30 – 1000 MHz	±2.56 dB
	1 – 18 GHz	±3.59 dB
	18 – 40 GHz	±3.82 dB
	40 – 200 GHz	N/A

## 2 Test Configuration of EUT

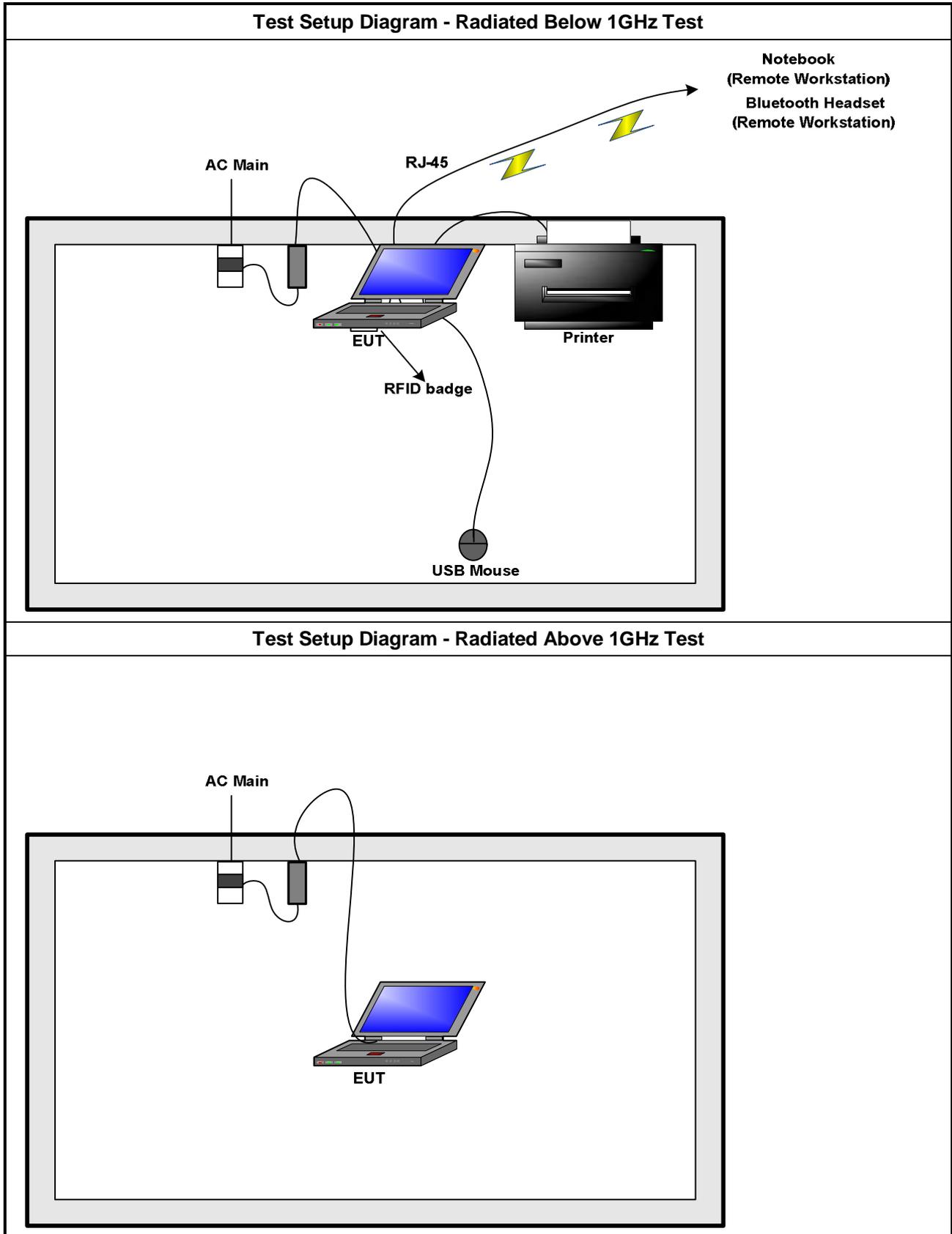
### 2.1 The Worst Case Modulation Configuration

Worst Modulation Used for Conformance Testing			
Modulation Mode	Transmit Chains (N <sub>TX</sub> )	Data Rate / MCS	Worst Data Rate / MCS
11a,6-54Mbps	1	6-54Mbps	6 Mbps
HT20,M0-7	1	M0-7	MCS 0
HT20,M8-15	2	M8-15	MCS 8
HT40,M0-7	1	M0-7	MCS 0
HT40,M8-15	2	M8-15	MCS 8

### 2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
<b>Tests Item</b>	Transmitter Radiated Unwanted Emissions Transmitter Radiated Bandedge Emissions
<b>Test Condition</b>	Radiated measurement
<b>User Position</b>	<input type="checkbox"/> EUT will be placed in fixed position.
	<input checked="" type="checkbox"/> EUT will be placed in mobile position and operating multiple positions. EUT shall be performed two orthogonal planes. The worst planes is X.
	<input type="checkbox"/> EUT will be a hand-held or body-worn battery-powered devices and operating multiple positions. EUT shall be performed two or three orthogonal planes.
<b>Operating Mode</b>	<input checked="" type="checkbox"/> 1. AC Power & Radio Link
<b>Modulation Mode</b>	11a, HT20, HT40
<b>Orthogonal Planes of EUT</b>	<b>X Plane</b>
	
	<b>Z Plane</b>
	

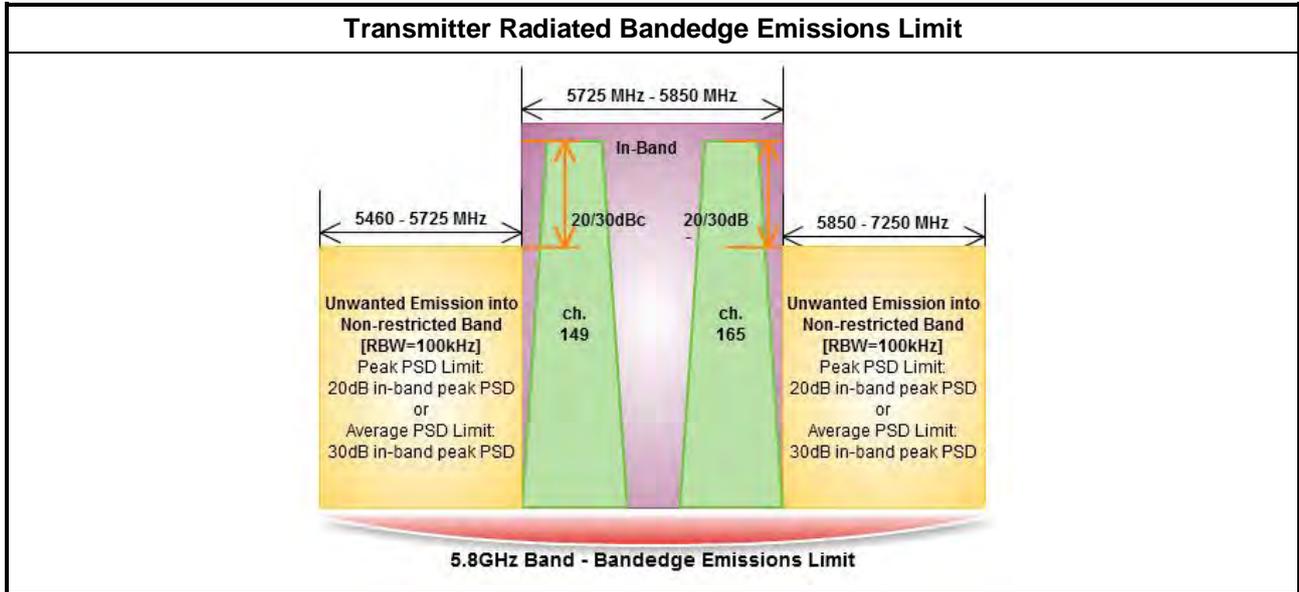
### 2.3 Test Setup Diagram



### 3 Transmitter Test Result

#### 3.1 Transmitter Bandedge Emissions

##### 3.1.1 Transmitter Radiated Bandedge Emissions Limit



##### 3.1.2 Measuring Instruments

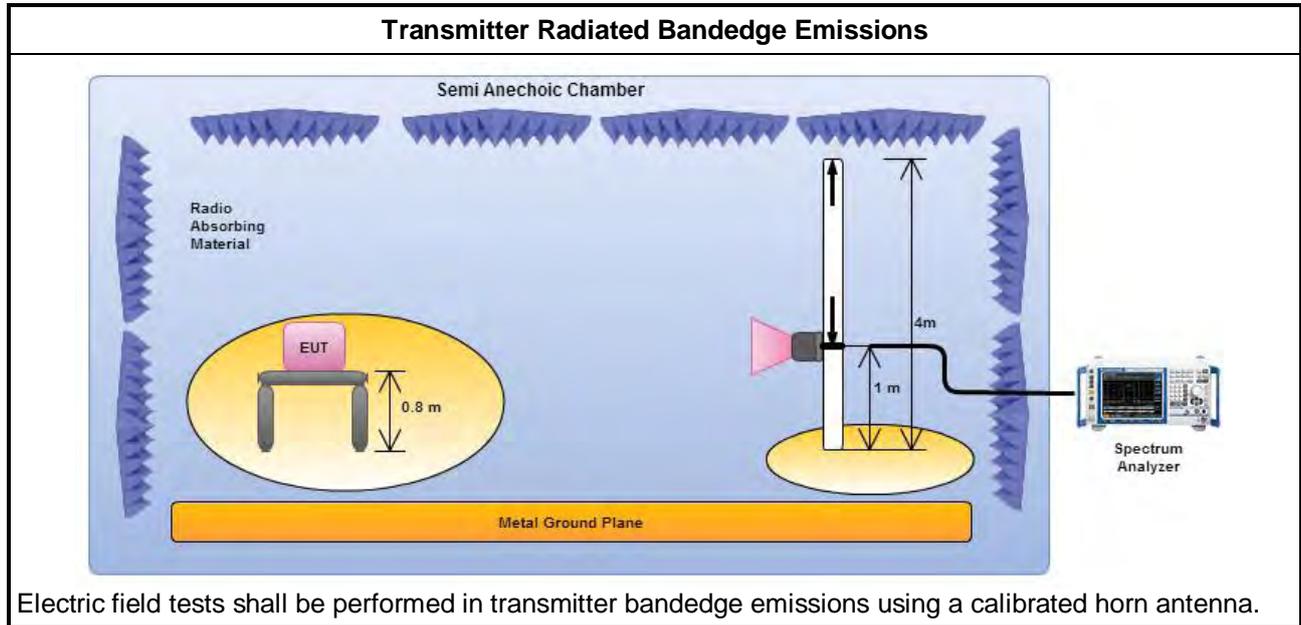
Refer a test equipment and calibration data table in this test report.



3.1.3 Test Procedures

Test Method	
<input checked="" type="checkbox"/>	The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].
<input checked="" type="checkbox"/>	Refer as ANSI C63.10, clause 6.9.2.2 bandedge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.
<input checked="" type="checkbox"/>	For the transmitter unwanted emissions shall be measured using following options below:
<input checked="" type="checkbox"/>	Refer as FCC KDB 558074, clause 11 for unwanted emissions into non-restricted bands.
<input checked="" type="checkbox"/>	Refer as FCC KDB 558074, clause 12 for unwanted emissions into restricted bands.
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 12.2.5.1 Option 1 (trace averaging for duty cycle $\geq$ 98%)
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 12.2.5.2 Option 2 (trace averaging + duty factor).
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 12.2.5.3 Option 3 (Reduced VBW $\geq$ 1/T).
<input checked="" type="checkbox"/>	Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW). VBW $\geq$ 1/T, where T is pulse time.
<input type="checkbox"/>	Refer as ANSI C63.10, clause 4.2.3.2.4 average value of pulsed emissions.
<input checked="" type="checkbox"/>	Refer as FCC KDB 558074, clause 11.3 and 12.2.4 measurement procedure peak limit.
<input checked="" type="checkbox"/>	For the transmitter bandedge emissions shall be measured using following options below:
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 13.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).
<input checked="" type="checkbox"/>	Refer as ANSI C63.10, clause 6.9.2 for band-edge testing.
<input type="checkbox"/>	Refer as ANSI C63.10, clause 6.9.3 for marker-delta method for band-edge measurements.
<input checked="" type="checkbox"/>	For radiated measurement, refer as FCC KDB 558074, clause 12.2.7.
<input checked="" type="checkbox"/>	Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements). Measurements in the bandedge are typically made at a closer distance 1m, because the instrumentation noise floor is typically close to the radiated emission limit.

### 3.1.4 Test Setup





### 3.1.5 Transmitter Radiated Bandedge Emissions

5725-5850MHz Transmitter Radiated Bandedge Emissions								
Modulation	N <sub>TX</sub>	Test Freq. (MHz)	In-band PSD [i] (dBuV/100kHz)	Freq. (MHz)	Out-band PSD [o] (dBuV/100kHz)	[i] – [o] (dB)	Limit (dB)	Pol.
11a	1	5745	102.62	5724.90	69.08	33.54	20	V
11a	1	5825	105.58	5856.91	68.13	37.45	20	V
HT20,M0-7	1	5745	104.81	5724.97	72.21	32.60	20	V
HT20,M0-7	1	5825	105.84	5857.19	69.08	36.76	20	V
HT20,M8-15	2	5745	103.38	5723.80	76.82	26.56	20	V
HT20,M8-15	2	5825	103.41	5863.00	68.66	34.75	20	V
HT40,M0-7	1	5755	104.13	5709.57	69.15	34.98	20	V
HT40,M0-7	1	5795	103.52	5850.59	68.93	34.59	20	V
HT40,M8-15	2	5755	101.70	5722.60	68.76	32.94	20	V
HT40,M8-15	2	5795	102.23	5861.00	68.77	33.46	20	V

Note 1: Measurement worst emissions of receive antenna polarization



### 3.2 Transmitter Unwanted Emissions

#### 3.2.1 Transmitter Radiated Unwanted Emissions Limit

Restricted Band Emissions Limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

Un-restricted Band Emissions Limit	
RF output power procedure	Limit (dB)
Peak output power procedure	20
Average output power procedure	30

Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak PSD level.

Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average PSD level.

#### 3.2.2 Measuring Instruments

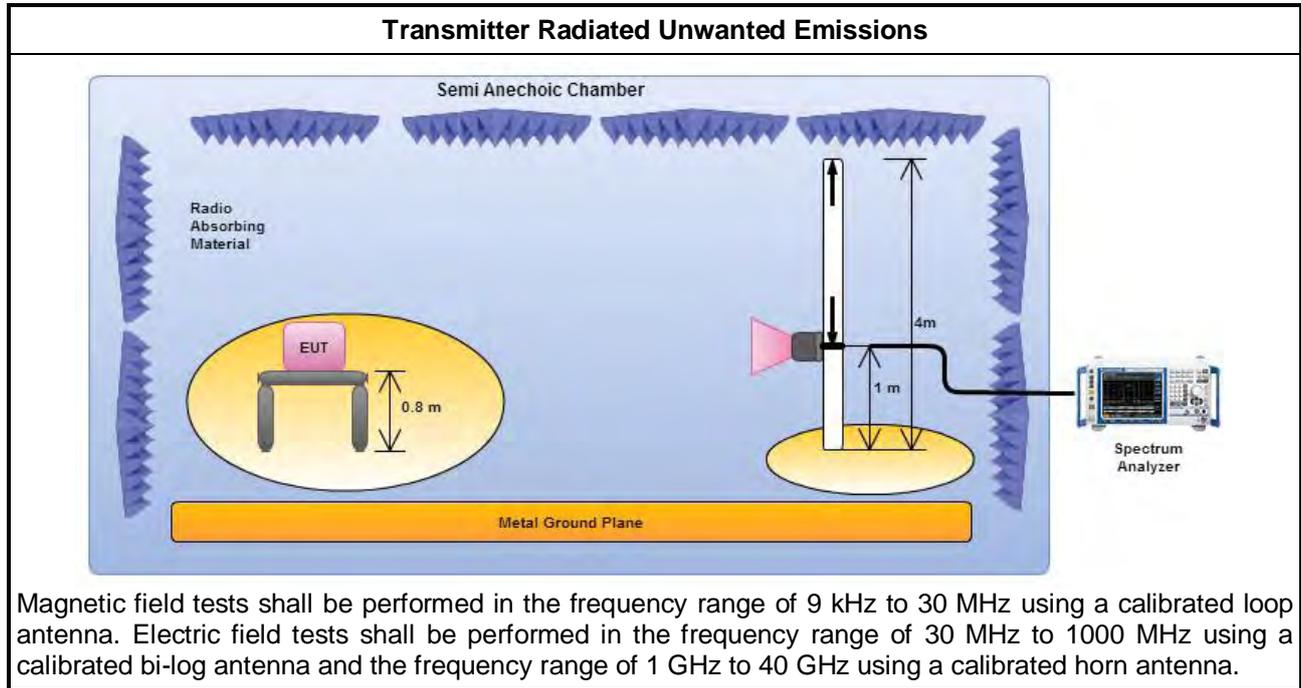
Refer a test equipment and calibration data table in this test report.



3.2.3 Test Procedures

Test Method	
<input checked="" type="checkbox"/>	Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).
<input checked="" type="checkbox"/>	Measurements in the frequency range 10 GHz - 18GHz are typically made at a closer distance 1m, because the instrumentation noise floor is typically close to the radiated emission limit.
<input checked="" type="checkbox"/>	Measurements in the frequency range above 18 GHz - 25GHz are typically made at a closer distance 0.5m, because the instrumentation noise floor is typically close to the radiated emission limit.
<input checked="" type="checkbox"/>	The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].
<input checked="" type="checkbox"/>	For the transmitter unwanted emissions shall be measured using following options below:
<input checked="" type="checkbox"/>	Refer as FCC KDB 558074, clause 11 for unwanted emissions into non-restricted bands.
<input checked="" type="checkbox"/>	Refer as FCC KDB 558074, clause 12 for unwanted emissions into restricted bands.
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 12.2.5.1 Option 1 (trace averaging for duty cycle $\geq$ 98%)
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 12.2.5.2 Option 2 (trace averaging + duty factor).
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 12.2.5.3 Option 3 (Reduced VBW $\geq$ 1/T).
<input checked="" type="checkbox"/>	Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW). VBW $\geq$ 1/T, where T is pulse time.
<input type="checkbox"/>	Refer as ANSI C63.10, clause 4.2.3.2.4 average value of pulsed emissions.
<input checked="" type="checkbox"/>	Refer as FCC KDB 558074, clause 11.3 and 12.2.4 measurement procedure peak limit.
<input checked="" type="checkbox"/>	Refer as FCC KDB 558074, clause 12.2.3 measurement procedure Quasi-Peak limit.
<input checked="" type="checkbox"/>	For radiated measurement, refer as FCC KDB 558074, clause 12.2.7.
<input checked="" type="checkbox"/>	Refer as ANSI C63.10, clause 6.4 for radiated emissions from below 30 MHz.
<input checked="" type="checkbox"/>	Refer as ANSI C63.10, clause 6.5 for radiated emissions from 30 MHz to 1000 MHz.
<input checked="" type="checkbox"/>	Refer as ANSI C63.10, clause 6.6 for radiated emissions from above 1 GHz.

### 3.2.4 Test Setup



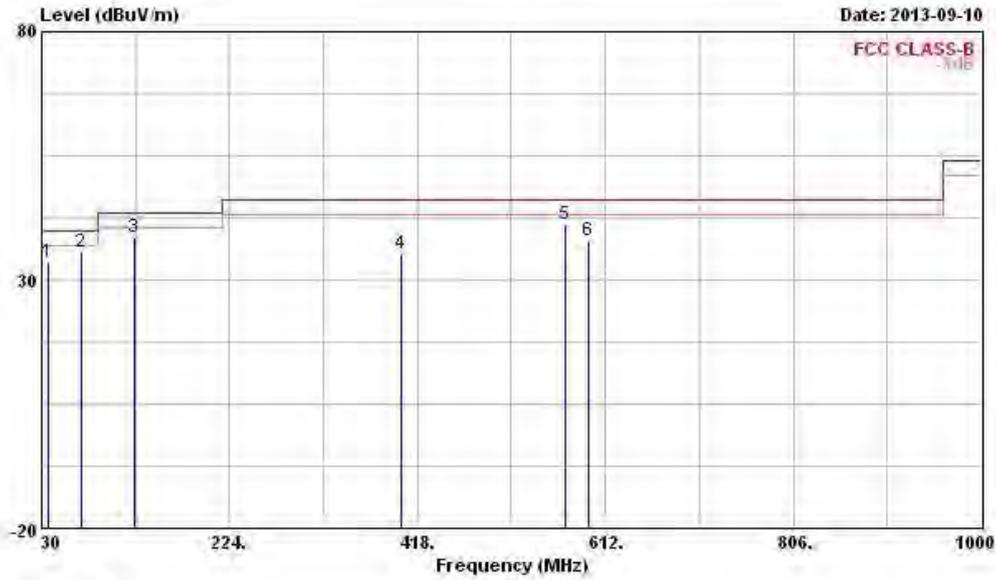
### 3.2.5 Transmitter Radiated Unwanted Emissions (Below 30MHz)

All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.



3.2.6 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Transmitter Radiated Unwanted Emissions (Below 1GHz)			
Operating Mode	1	Polarization	V
Operating Function	AC Power & Radio Link		

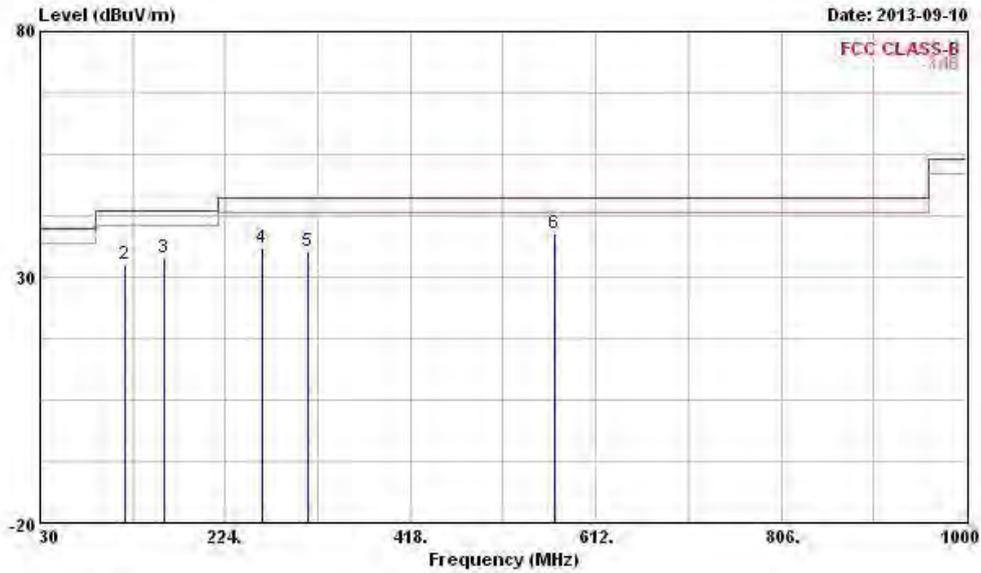


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	36.790	33.77	-6.23	40.00	46.72	13.92	0.83	27.70	Peak	---	---
2	71.710	35.73	-4.27	40.00	55.29	6.85	1.20	27.61	Peak	---	---
3	125.060	38.64	-4.86	43.50	51.54	13.18	1.59	27.67	Peak	---	---
4	400.540	35.31	-10.69	46.00	44.97	15.27	2.98	27.91	Peak	---	---
5	571.260	41.13	-4.87	46.00	46.66	19.34	3.61	28.48	Peak	---	---
6	594.540	37.89	-8.11	46.00	42.71	20.01	3.67	28.50	Peak	---	---

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.  
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)  
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)



Transmitter Radiated Unwanted Emissions (Below 1GHz)			
Operating Mode	1	Polarization	H
Operating Function	AC Power & Radio Link		



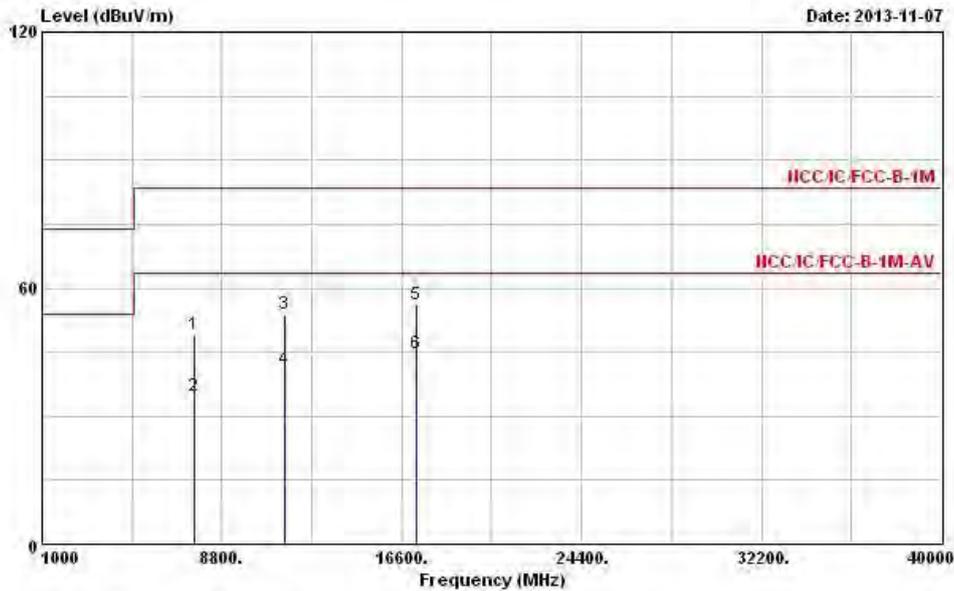
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Remark	Rnt	Table
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB		cm	deg
1	30.000	28.46	-11.54	40.00	39.27	16.22	0.78	27.81 Peak	---	---
2	118.270	32.47	-11.03	43.50	45.24	13.38	1.54	27.69 Peak	---	---
3	159.980	34.03	-9.47	43.50	49.26	10.55	1.78	27.56 Peak	---	---
4	261.830	35.88	-10.12	46.00	47.55	13.16	2.43	27.26 Peak	---	---
5	311.300	35.22	-10.78	46.00	45.97	13.88	2.61	27.24 Peak	---	---
6	568.350	38.80	-7.20	46.00	44.43	19.25	3.60	28.48 Peak	---	---

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.  
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)  
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)



3.2.7 Transmitter Radiated Unwanted Emissions (Above 1GHz)

Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	11a	Test Freq. (MHz)	5745
N <sub>TX</sub>	1	Polarization	V



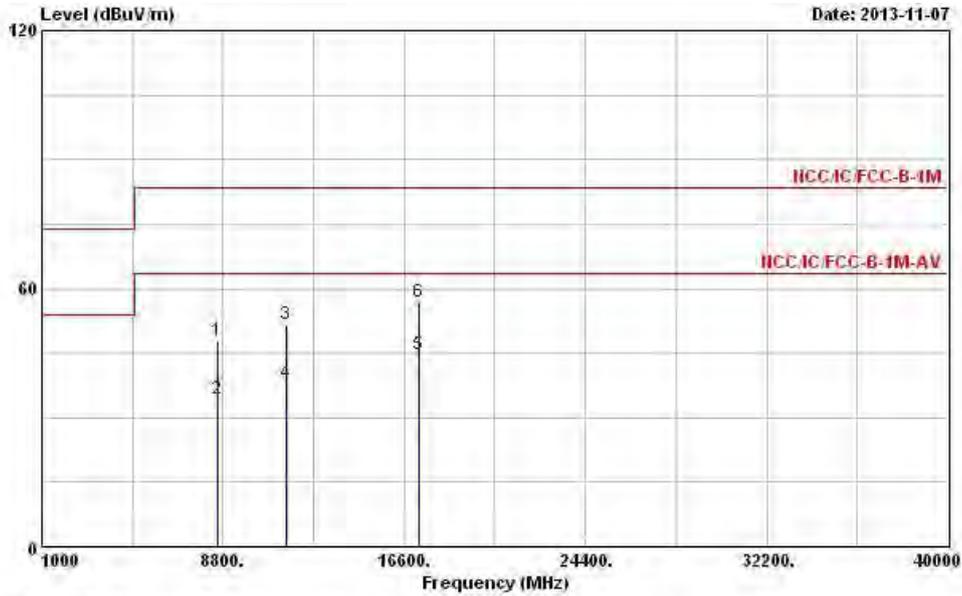
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7605.000	49.09	-34.45	83.54	43.17	35.30	5.64	35.02	Peak	---	---
2	7605.000	34.81	-28.73	63.54	28.89	35.30	5.64	35.02	Average	---	---
3	11490.000	53.73	-29.81	83.54	43.52	38.29	6.36	34.44	Peak	---	---
4	11490.000	41.12	-22.42	63.54	30.91	38.29	6.36	34.44	Average	---	---
5	17235.000	56.09	-27.45	83.54	40.04	40.95	8.96	33.86	Peak	---	---
6	17235.000	44.52	-19.02	63.54	28.47	40.95	8.96	33.86	Average	---	---

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.  
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)  
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)  
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.  
 Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (109.56 dBuV/m).



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	5745
N <sub>TX</sub>	1	Polarization	H

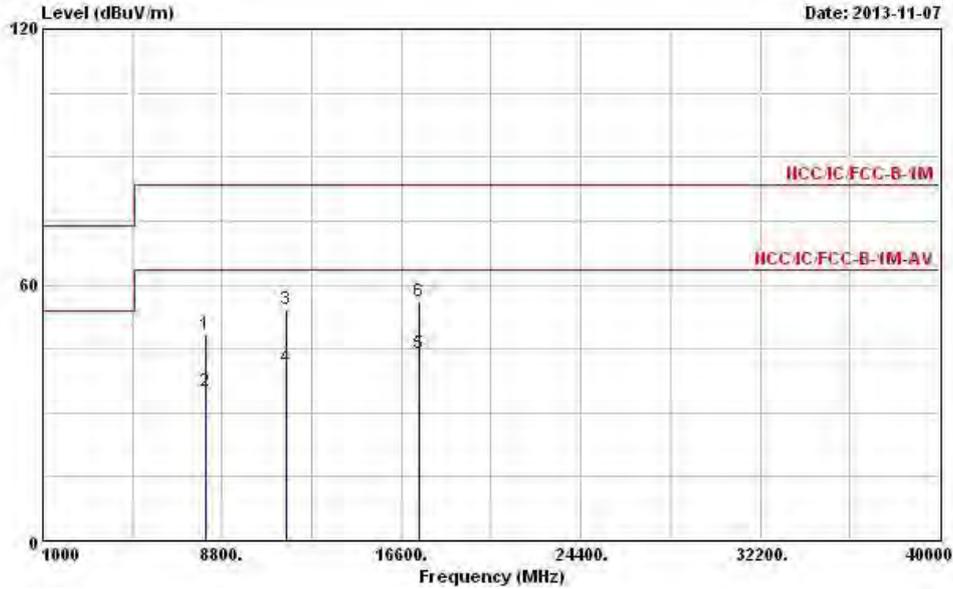


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8573.000	47.96	-35.58	83.54	41.89	35.64	5.54	35.11	Peak	---	---
2	8573.000	34.21	-29.33	63.54	28.14	35.64	5.54	35.11	Average	---	---
3	11490.000	51.58	-31.96	83.54	41.37	38.29	6.36	34.44	Peak	---	---
4	11490.000	37.97	-25.57	63.54	27.76	38.29	6.36	34.44	Average	---	---
5	17235.000	44.53	-19.01	63.54	28.48	40.95	8.96	33.86	Average	---	---
6	17235.000	57.00	-26.54	83.54	40.95	40.95	8.96	33.86	Peak	---	---

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (109.56 dBuV/m).

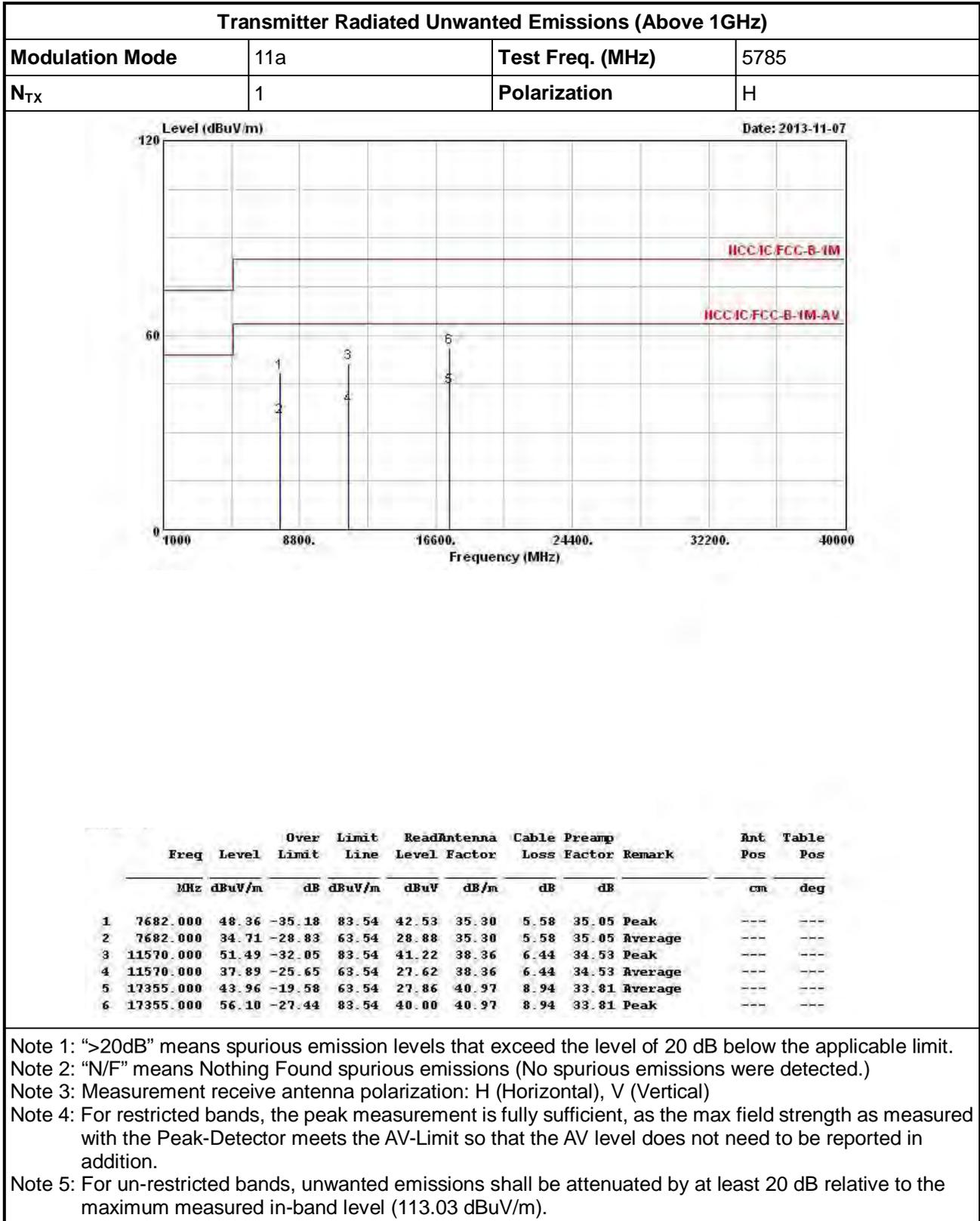


Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	11a	Test Freq. (MHz)	5785
N <sub>TX</sub>	1	Polarization	V



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8078.000	48.19	-35.35	83.54	42.67	35.34	5.33	35.15	Peak	---	---
2	8078.000	35.22	-28.32	63.54	29.70	35.34	5.33	35.15	Average	---	---
3	11570.000	54.33	-29.21	83.54	44.06	38.36	6.44	34.53	Peak	---	---
4	11570.000	40.76	-22.78	63.54	30.49	38.36	6.44	34.53	Average	---	---
5	17355.000	44.06	-19.48	63.54	27.96	40.97	8.94	33.81	Average	---	---
6	17355.000	56.03	-27.51	83.54	39.93	40.97	8.94	33.81	Peak	---	---

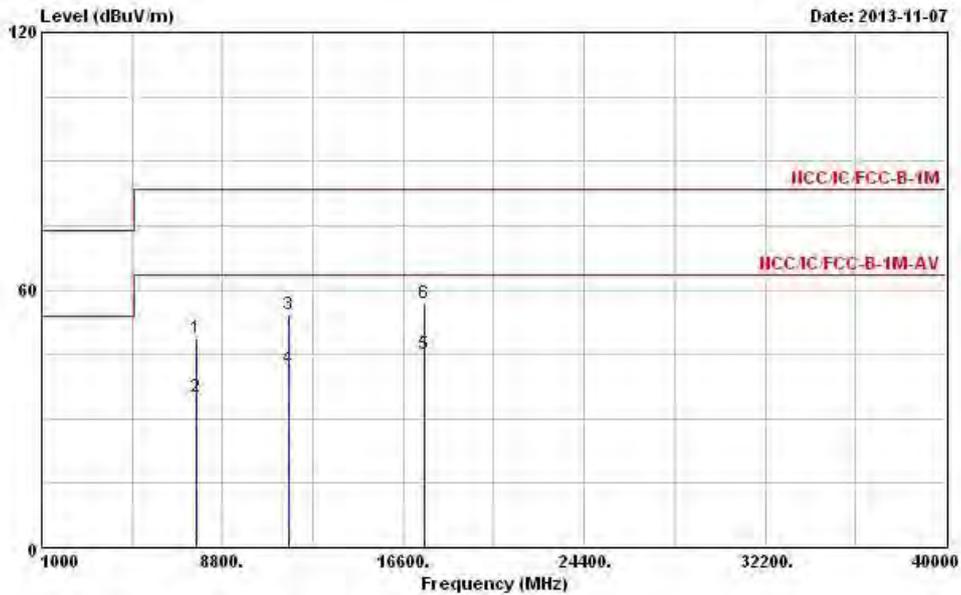
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.  
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)  
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)  
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.  
 Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (113.03 dBuV/m).





Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	5825
N <sub>TX</sub>	1	Polarization	V



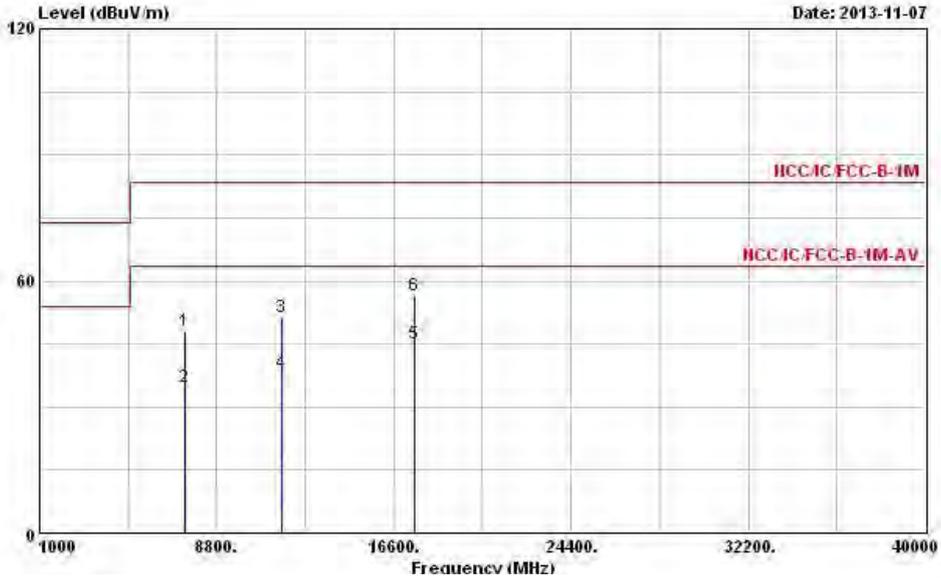
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7638.000	48.58	-34.96	83.54	42.70	35.30	5.61	35.03	Peak	---	---
2	7638.000	34.91	-28.63	63.54	29.03	35.30	5.61	35.03	Average	---	---
3	11650.000	54.19	-29.35	83.54	43.84	38.41	6.52	34.58	Peak	---	---
4	11650.000	41.60	-21.94	63.54	31.25	38.41	6.52	34.58	Average	---	---
5	17475.000	45.10	-18.44	63.54	28.94	40.99	8.92	33.75	Average	---	---
6	17475.000	56.84	-26.70	83.54	40.68	40.99	8.92	33.75	Peak	---	---

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.  
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)  
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)  
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.  
 Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (112.20 dBuV/m).



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	5825
N <sub>TX</sub>	1	Polarization	H



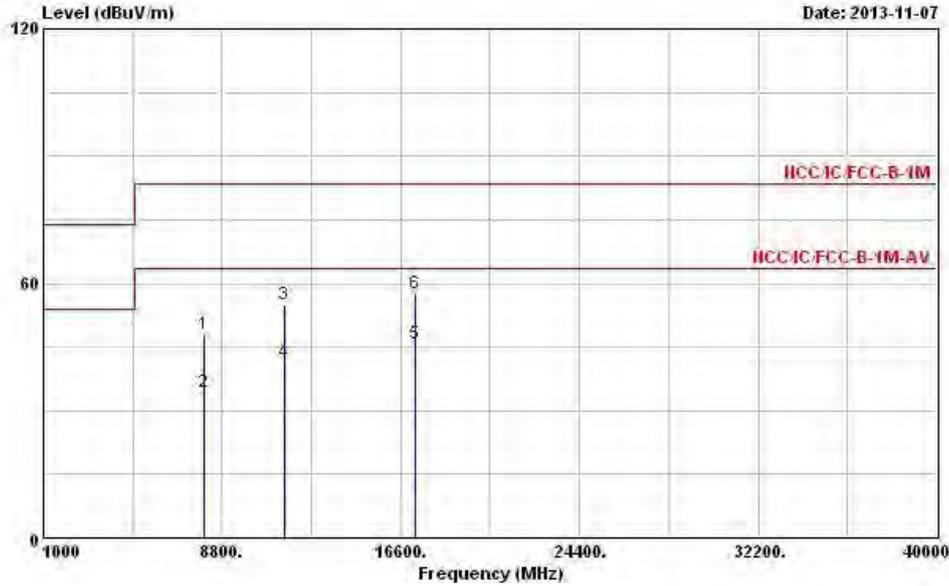
	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Remark	Ant	Table
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7385.000	47.92	-35.62	83.54	42.02	35.30	5.57	34.97	Peak	---	---
2	7385.000	34.62	-28.92	63.54	28.72	35.30	5.57	34.97	Average	---	---
3	11650.000	51.15	-32.39	83.54	40.80	38.41	6.52	34.58	Peak	---	---
4	11650.000	37.85	-25.69	63.54	27.50	38.41	6.52	34.58	Average	---	---
5	17475.000	44.97	-18.57	63.54	28.81	40.99	8.92	33.75	Average	---	---
6	17475.000	56.34	-27.20	83.54	40.18	40.99	8.92	33.75	Peak	---	---

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (112.20 dBuV/m).



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5745
N <sub>TX</sub>	1	Polarization	V



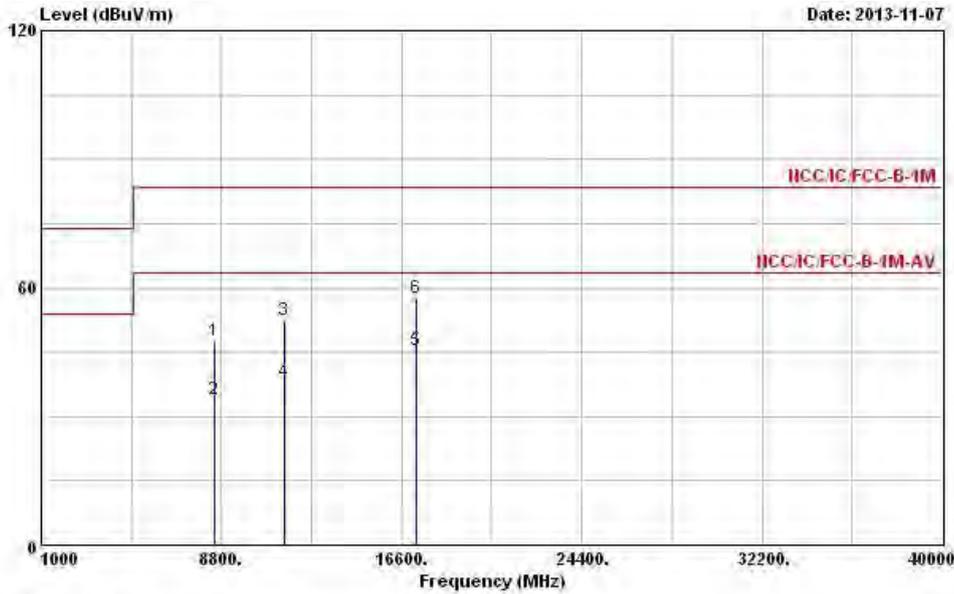
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8045.000	47.86	-35.68	83.54	42.37	35.32	5.33	35.16	Peak	---	---
2	8045.000	34.30	-29.24	63.54	28.81	35.32	5.33	35.16	Average	---	---
3	11490.000	55.04	-28.50	83.54	44.83	38.29	6.36	34.44	Peak	---	---
4	11490.000	41.25	-22.29	63.54	31.04	38.29	6.36	34.44	Average	---	---
5	17235.000	45.69	-17.85	63.54	29.64	40.95	8.96	33.86	Average	---	---
6	17235.000	57.68	-25.86	83.54	41.63	40.95	8.96	33.86	Peak	---	---

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (110.97 dBuV/m).



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5745
N <sub>TX</sub>	1	Polarization	H



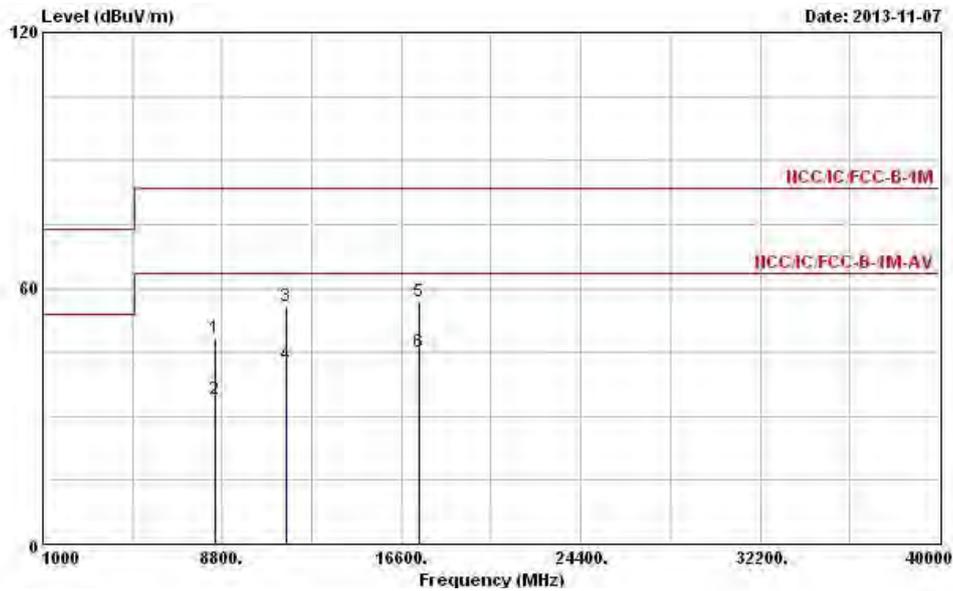
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8529.000	47.75	-35.79	83.54	41.73	35.62	5.50	35.10	Peak	---	---
2	8529.000	33.89	-29.65	63.54	27.87	35.62	5.50	35.10	Average	---	---
3	11490.000	52.34	-31.20	83.54	42.13	38.29	6.36	34.44	Peak	---	---
4	11490.000	38.12	-25.42	63.54	27.91	38.29	6.36	34.44	Average	---	---
5	17235.000	45.49	-18.05	63.54	29.44	40.95	8.96	33.86	Average	---	---
6	17235.000	57.57	-25.97	83.54	41.52	40.95	8.96	33.86	Peak	---	---

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.  
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)  
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)  
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.  
 Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (110.97 dBuV/m).



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5785
N <sub>TX</sub>	1	Polarization	V



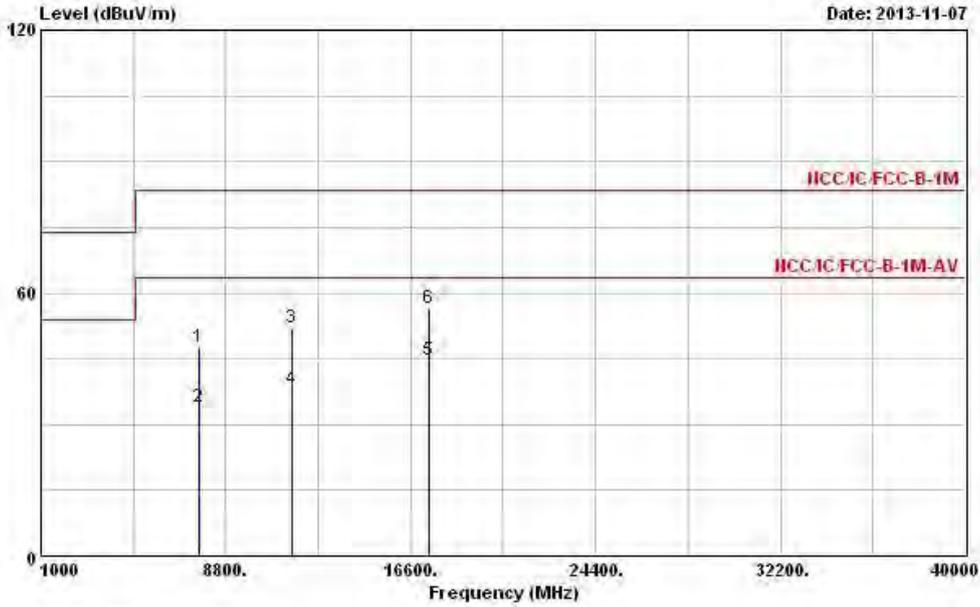
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8529.000	48.25	-35.29	83.54	42.23	35.62	5.50	35.10	Peak	---	---
2	8529.000	34.07	-29.47	63.54	28.05	35.62	5.50	35.10	Average	---	---
3	11570.000	55.69	-27.85	83.54	45.42	38.36	6.44	34.53	Peak	---	---
4	11570.000	42.07	-21.47	63.54	31.80	38.36	6.44	34.53	Average	---	---
5	17355.000	56.98	-26.56	83.54	40.88	40.97	8.94	33.81	Peak	---	---
6	17355.000	44.94	-18.60	63.54	28.84	40.97	8.94	33.81	Average	---	---

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (110.74 dBuV/m).



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5785
N <sub>TX</sub>	1	Polarization	H



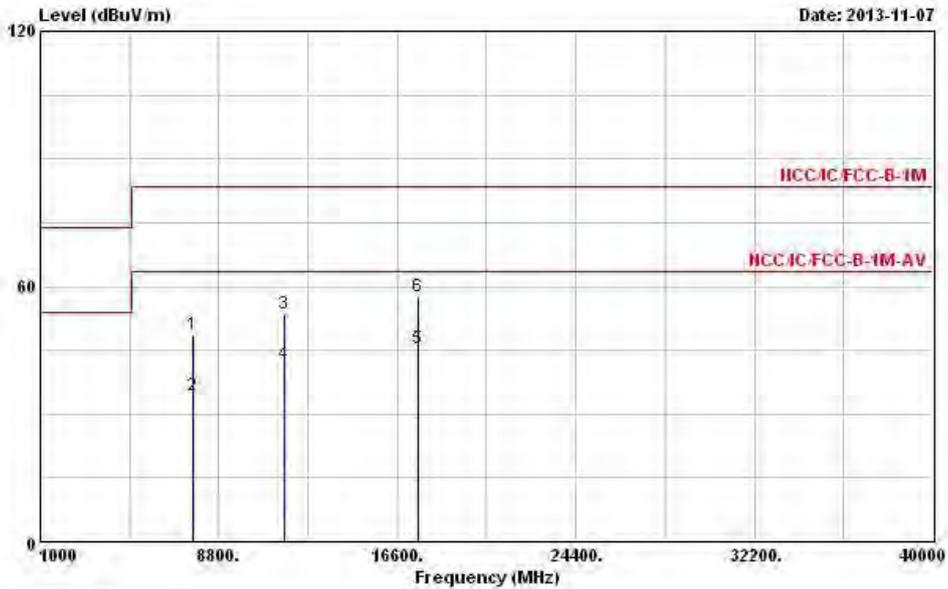
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7682.000	47.65	-35.89	83.54	41.82	35.30	5.58	35.05	Peak	---	---
2	7682.000	34.13	-29.41	63.54	28.30	35.30	5.58	35.05	Average	---	---
3	11570.000	51.94	-31.60	83.54	41.67	38.36	6.44	34.53	Peak	---	---
4	11570.000	38.09	-25.45	63.54	27.82	38.36	6.44	34.53	Average	---	---
5	17355.000	44.75	-18.79	63.54	28.65	40.97	8.94	33.81	Average	---	---
6	17355.000	56.59	-26.95	83.54	40.49	40.97	8.94	33.81	Peak	---	---

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.  
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)  
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)  
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.  
 Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (110.74 dBuV/m).



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5825
N <sub>TX</sub>	1	Polarization	V



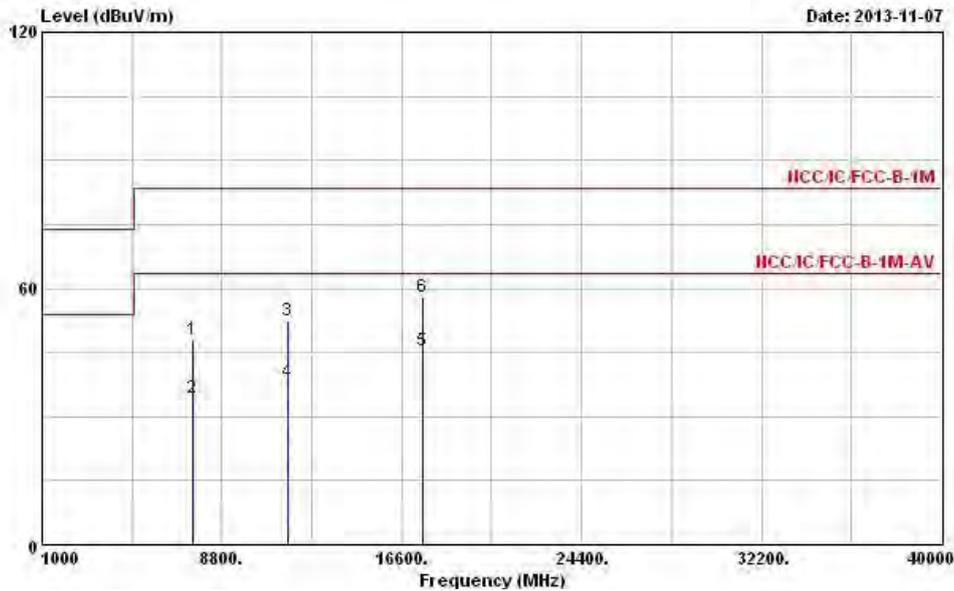
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Remark	Ant	Table
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor		Pos	Pos
			dB	dBuV/m	dBuV	dB	dB		cm	deg
1	7693.000	48.57	-34.97	83.54	42.78	35.30	5.54	35.05	Peak	---
2	7693.000	34.22	-29.32	63.54	28.43	35.30	5.54	35.05	Average	---
3	11650.000	53.67	-29.87	83.54	43.32	38.41	6.52	34.58	Peak	---
4	11650.000	41.68	-21.86	63.54	31.33	38.41	6.52	34.58	Average	---
5	17475.000	45.44	-18.10	63.54	29.28	40.99	8.92	33.75	Average	---
6	17475.000	57.53	-26.01	83.54	41.37	40.99	8.92	33.75	Peak	---

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.  
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)  
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)  
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.  
 Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (111.77 dBuV/m).



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5825
N <sub>TX</sub>	1	Polarization	H



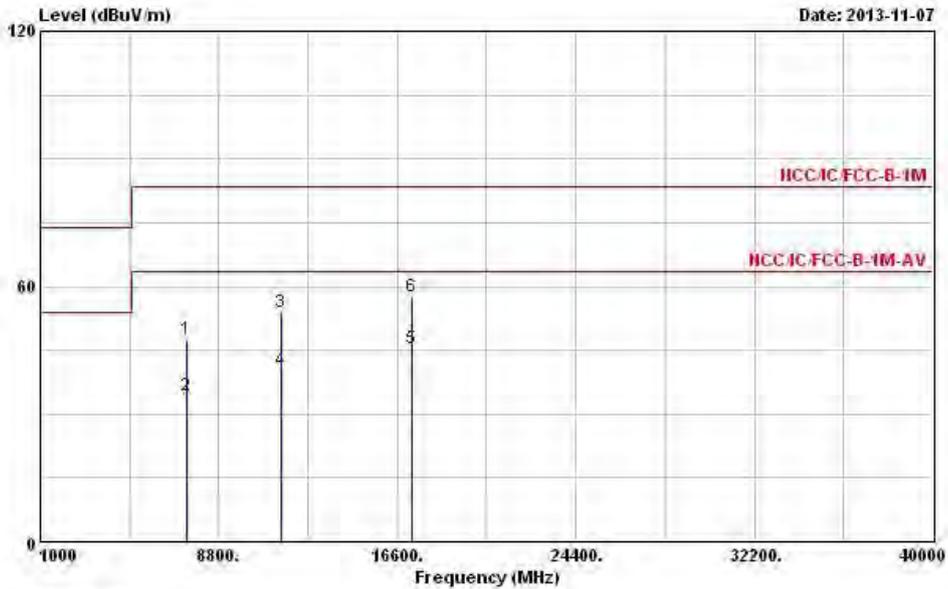
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7550.000	47.84	-35.70	83.54	41.87	35.30	5.68	35.01	Peak	---	---
2	7550.000	34.43	-29.11	63.54	28.46	35.30	5.68	35.01	Average	---	---
3	11650.000	52.49	-31.05	83.54	42.14	38.41	6.52	34.58	Peak	---	---
4	11650.000	38.08	-25.46	63.54	27.73	38.41	6.52	34.58	Average	---	---
5	17475.000	45.43	-18.11	63.54	29.27	40.99	8.92	33.75	Average	---	---
6	17475.000	58.02	-25.52	83.54	41.86	40.99	8.92	33.75	Peak	---	---

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (111.77 dBuV/m).



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5745
N <sub>TX</sub>	2	Polarization	V



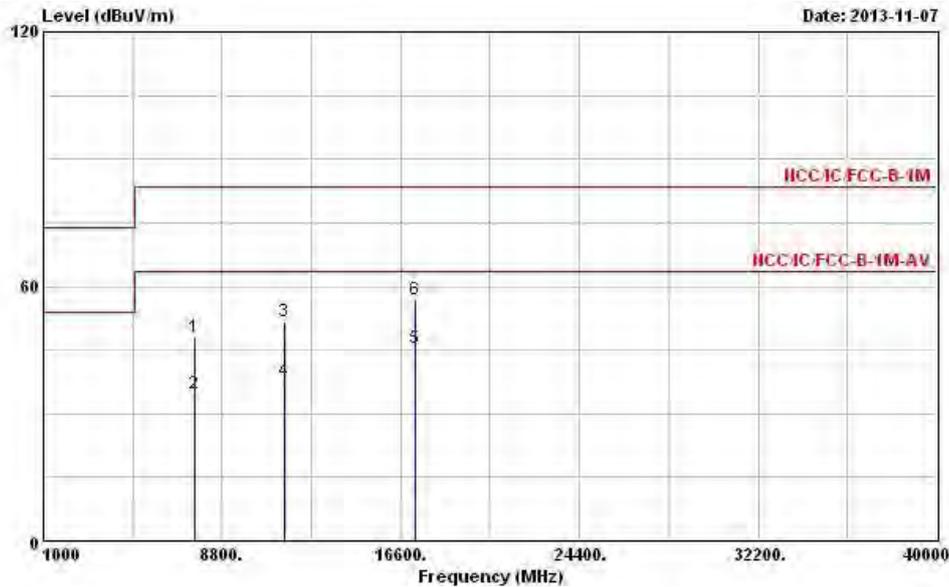
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Remark	Ant	Table
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor		Pos	Pos
			dB	dBuV/m	dBuV	dB	dB		cm	deg
1	7385.000	47.66	-35.88	83.54	41.76	35.30	5.57	34.97	Peak	---
2	7385.000	34.39	-29.15	63.54	28.49	35.30	5.57	34.97	Average	---
3	11510.000	53.80	-29.74	83.54	43.62	38.30	6.36	34.48	Peak	---
4	11510.000	40.07	-23.47	63.54	29.89	38.30	6.36	34.48	Average	---
5	17265.000	45.49	-18.05	63.54	29.43	40.95	8.95	33.84	Average	---
6	17265.000	57.43	-26.11	83.54	41.37	40.95	8.95	33.84	Peak	---

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (109.61 dBuV/m).



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5745
N <sub>TX</sub>	2	Polarization	H



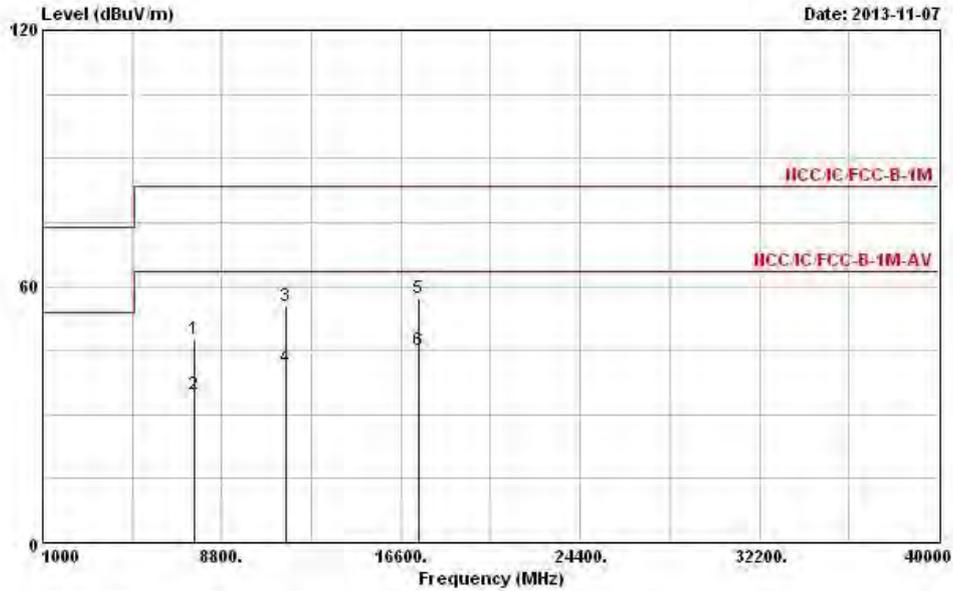
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Remark	Ant	Table
	MHz	dBuV/m	dB	dBuV/m	Level	Loss	Factor		cm	deg
					dBuV	dB/m	dB			
1	7605.000	47.82	-35.72	83.54	41.90	35.30	5.64	35.02	Peak	---
2	7605.000	34.64	-28.90	63.54	28.72	35.30	5.64	35.02	Average	---
3	11510.000	51.56	-31.98	83.54	41.38	38.30	6.36	34.48	Peak	---
4	11510.000	37.65	-25.89	63.54	27.47	38.30	6.36	34.48	Average	---
5	17265.000	45.25	-18.29	63.54	29.19	40.95	8.95	33.84	Average	---
6	17265.000	56.90	-26.64	83.54	40.84	40.95	8.95	33.84	Peak	---

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (109.61 dBuV/m).



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5785
N <sub>TX</sub>	2	Polarization	V



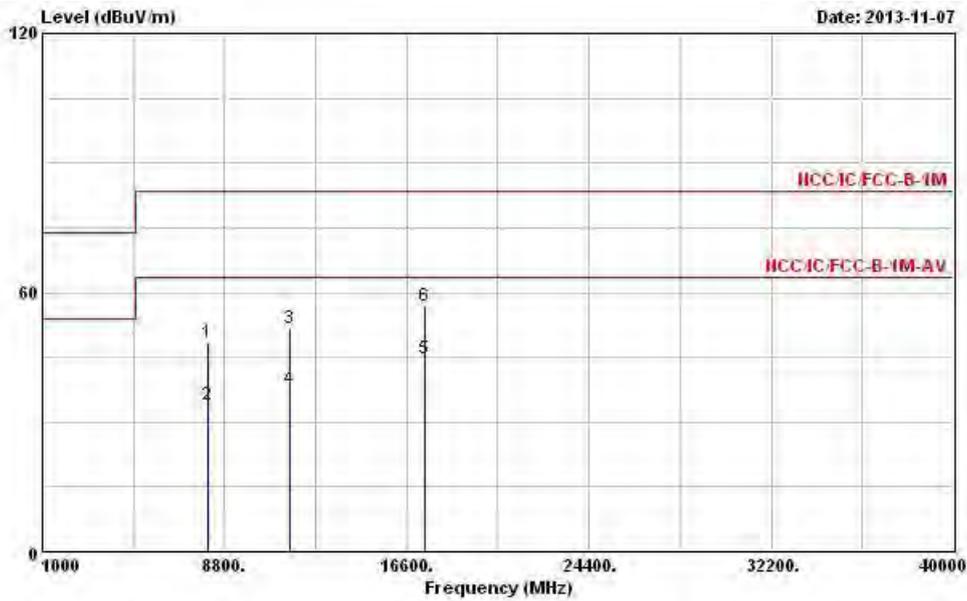
Line	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Gain	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7605.000	47.72	-35.82	83.54	41.80	35.30	5.64	35.02	Peak	---	---
2	7605.000	34.77	-28.77	63.54	28.85	35.30	5.64	35.02	Average	---	---
3	11590.000	55.44	-28.10	83.54	45.12	38.37	6.48	34.53	Peak	---	---
4	11590.000	40.93	-22.61	63.54	30.61	38.37	6.48	34.53	Average	---	---
5	17385.000	57.20	-26.34	83.54	41.08	40.98	8.93	33.79	Peak	---	---
6	17385.000	44.88	-18.66	63.54	28.76	40.98	8.93	33.79	Average	---	---

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (109.50 dBuV/m).



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5785
N <sub>TX</sub>	2	Polarization	H



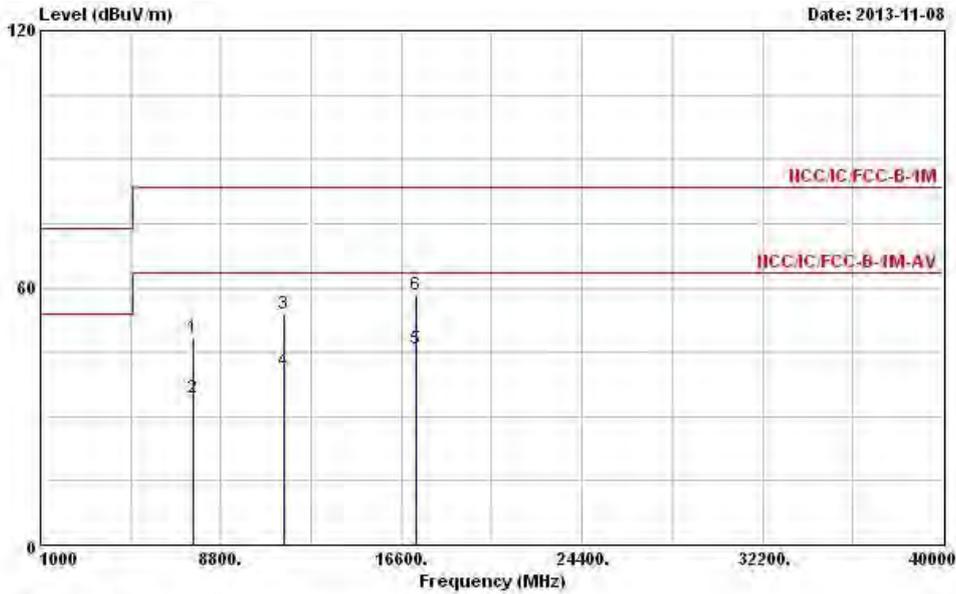
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8078.000	48.35	-35.19	83.54	42.83	35.34	5.33	35.15	Peak	---	---
2	8078.000	34.03	-29.51	63.54	28.51	35.34	5.33	35.15	Average	---	---
3	11590.000	51.72	-31.82	83.54	41.40	38.37	6.48	34.53	Peak	---	---
4	11590.000	37.78	-25.76	63.54	27.46	38.37	6.48	34.53	Average	---	---
5	17385.000	44.80	-18.74	63.54	28.68	40.98	8.93	33.79	Average	---	---
6	17385.000	56.79	-26.75	83.54	40.67	40.98	8.93	33.79	Peak	---	---

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.  
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)  
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)  
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.  
 Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (109.50 dBuV/m).



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5825
N <sub>TX</sub>	2	Polarization	V

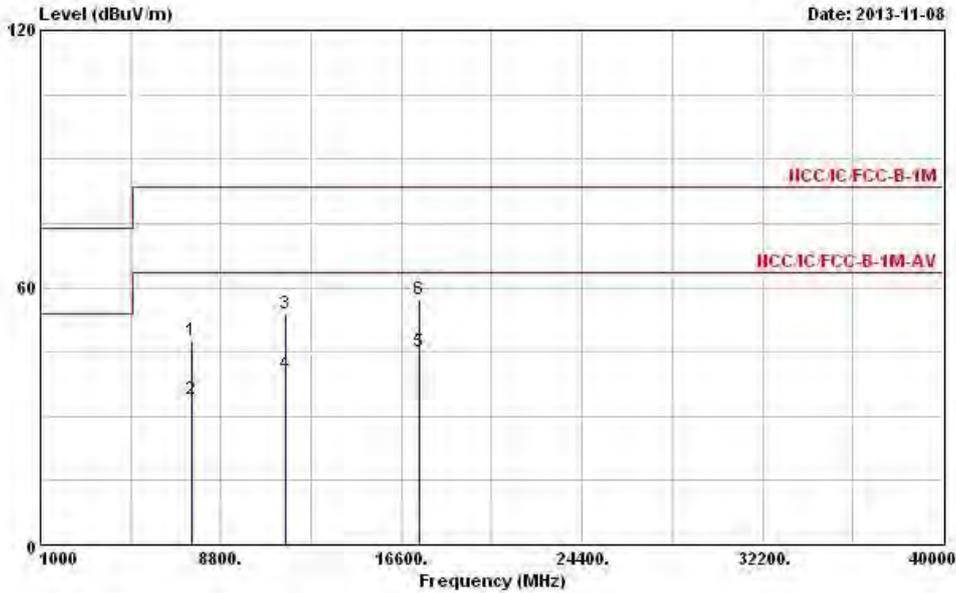


	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Remark	Ant	Table
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor		Pos	Pos
			dB	dBuV/m	dBuV	dB/m	dB		cm	deg
1	7594.000	48.32	-35.22	83.54	42.40	35.30	5.64	35.02 Peak	---	---
2	7594.000	34.31	-29.23	63.54	28.39	35.30	5.64	35.02 Average	---	---
3	11490.000	53.90	-29.64	83.54	43.69	38.29	6.36	34.44 Peak	---	---
4	11490.000	40.55	-22.99	63.54	30.34	38.29	6.36	34.44 Average	---	---
5	17235.000	45.84	-17.70	63.54	29.79	40.95	8.96	33.86 Average	---	---
6	17235.000	58.31	-25.23	83.54	42.26	40.95	8.96	33.86 Peak	---	---

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.  
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)  
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)  
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.  
 Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (108.92 dBuV/m).



Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT20	Test Freq. (MHz)	5825
N <sub>TX</sub>	2	Polarization	H



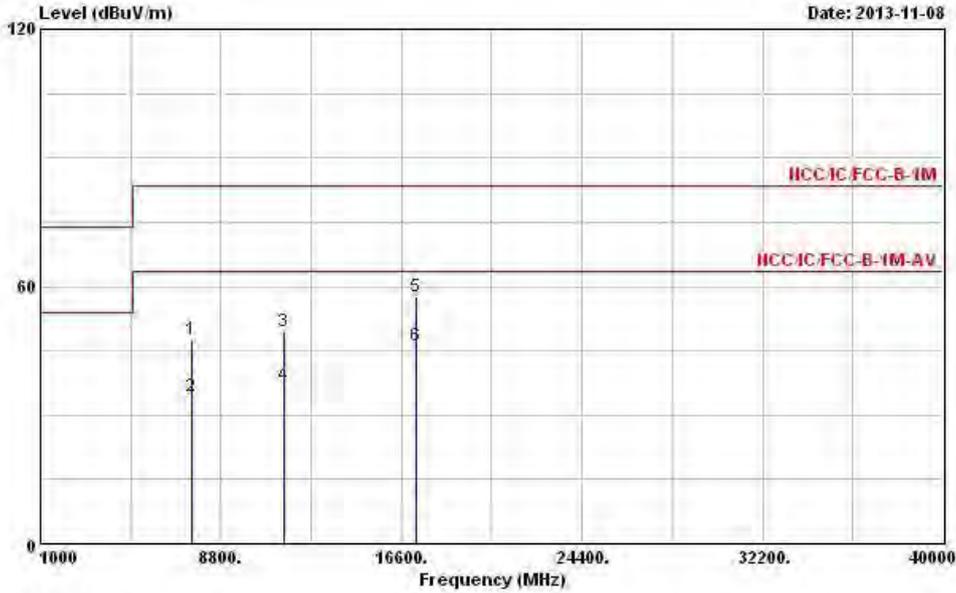
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7517.000	47.49	-36.05	83.54	41.48	35.30	5.71	35.00	Peak	---	---
2	7517.000	33.88	-29.66	63.54	27.87	35.30	5.71	35.00	Average	---	---
3	11570.000	53.73	-29.81	83.54	43.46	38.36	6.44	34.53	Peak	---	---
4	11570.000	39.85	-23.69	63.54	29.58	38.36	6.44	34.53	Average	---	---
5	17355.000	45.00	-18.54	63.54	28.90	40.97	8.94	33.81	Average	---	---
6	17355.000	57.23	-26.31	83.54	41.13	40.97	8.94	33.81	Peak	---	---

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.  
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)  
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)  
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.  
 Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (108.92 dBuV/m).



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5755
N <sub>TX</sub>	1	Polarization	V



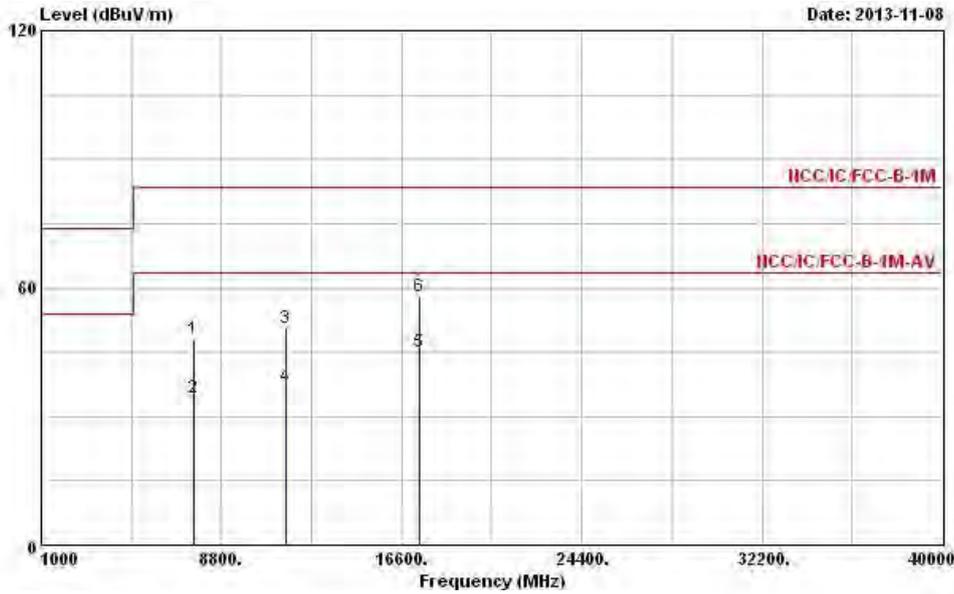
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Remark	Ant	Table
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor		Pos	Pos
			dB	dBuV/m	dBuV	dB	dB		cm	deg
1	7517.000	47.49	-36.05	83.54	41.48	35.30	5.71	35.00 Peak	---	---
2	7517.000	34.39	-29.15	63.54	28.38	35.30	5.71	35.00 Average	---	---
3	11490.000	49.32	-34.22	83.54	39.11	38.29	6.36	34.44 Peak	---	---
4	11490.000	37.01	-26.53	63.54	26.80	38.29	6.36	34.44 Average	---	---
5	17235.000	57.72	-25.82	83.54	41.67	40.95	8.96	33.86 Peak	---	---
6	17235.000	45.97	-17.57	63.54	29.92	40.95	8.96	33.86 Average	---	---

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (107.77 dBuV/m).



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5755
N <sub>TX</sub>	1	Polarization	H



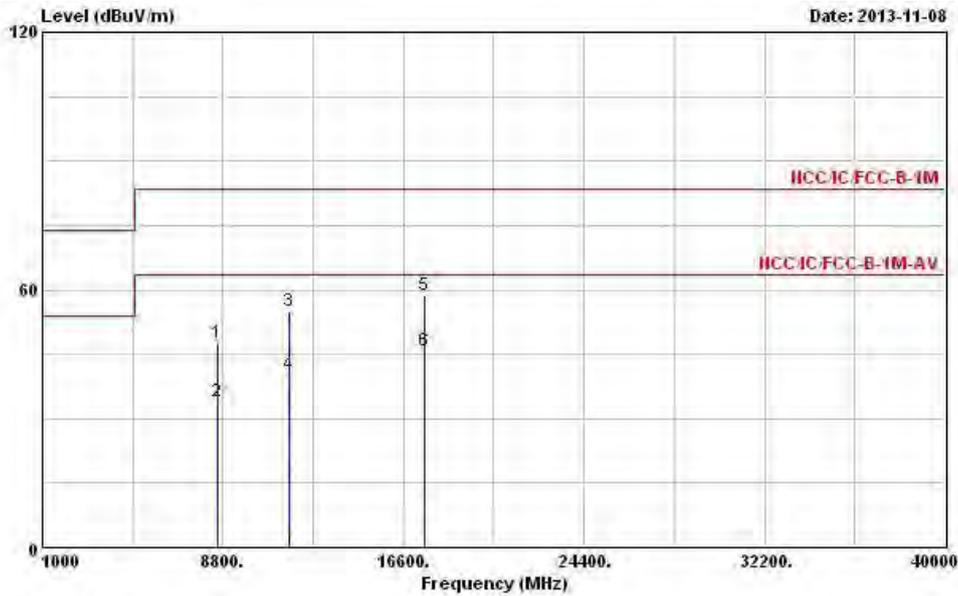
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp		Ant	Table
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Remark	Pos	Pos
			dB	dBuV/m	dBuV	dB	dB		cm	deg
1	7594.000	48.17	-35.37	83.54	42.25	35.30	5.64	35.02 Peak	---	---
2	7594.000	34.23	-29.31	63.54	28.31	35.30	5.64	35.02 Average	---	---
3	11570.000	50.69	-32.85	83.54	40.42	38.36	6.44	34.53 Peak	---	---
4	11570.000	37.05	-26.49	63.54	26.78	38.36	6.44	34.53 Average	---	---
5	17355.000	45.03	-18.51	63.54	28.93	40.97	8.94	33.81 Average	---	---
6	17355.000	57.96	-25.58	83.54	41.86	40.97	8.94	33.81 Peak	---	---

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.  
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)  
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)  
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.  
 Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (107.77 dBuV/m).



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5795
N <sub>TX</sub>	1	Polarization	V



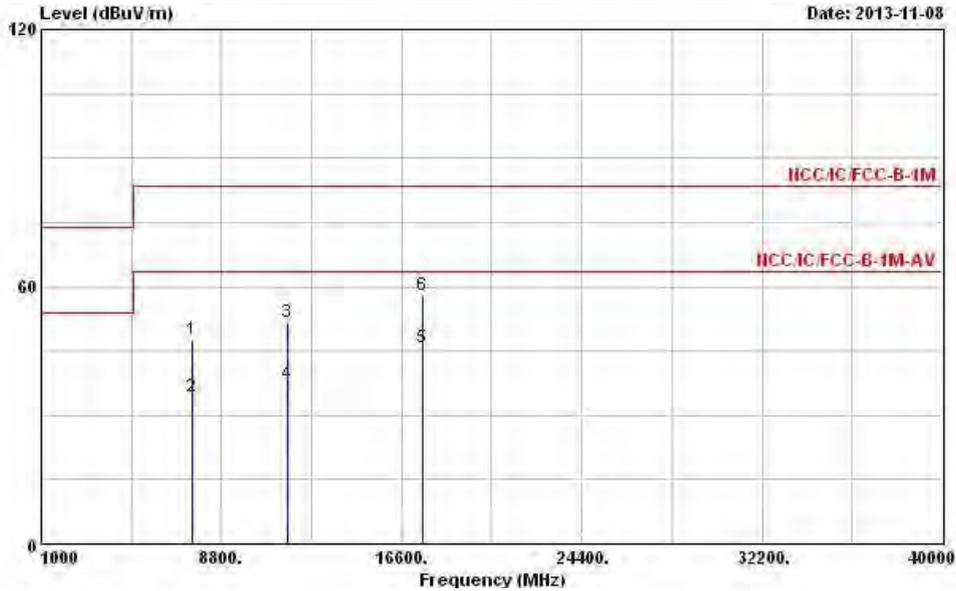
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8562.000	47.56	-35.98	83.54	41.49	35.64	5.54	35.11	Peak	---	---
2	8562.000	33.95	-29.59	63.54	27.88	35.64	5.54	35.11	Average	---	---
3	11650.000	54.97	-28.57	83.54	44.62	38.41	6.52	34.58	Peak	---	---
4	11650.000	40.42	-23.12	63.54	30.07	38.41	6.52	34.58	Average	---	---
5	17475.000	58.85	-24.69	83.54	42.69	40.99	8.92	33.75	Peak	---	---
6	17475.000	45.61	-17.93	63.54	29.45	40.99	8.92	33.75	Average	---	---

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.  
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)  
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)  
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.  
 Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (108.85 dBuV/m).



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5795
N <sub>TX</sub>	1	Polarization	H



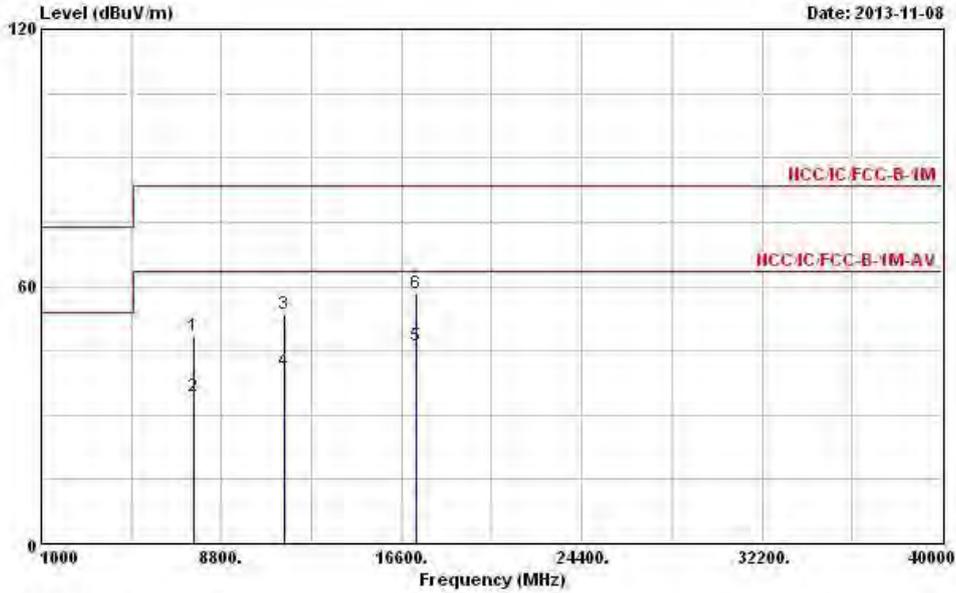
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7550.000	47.57	-35.97	83.54	41.60	35.30	5.68	35.01	Peak	---	---
2	7550.000	34.22	-29.32	63.54	28.25	35.30	5.68	35.01	Average	---	---
3	11650.000	51.51	-32.03	83.54	41.16	38.41	6.52	34.58	Peak	---	---
4	11650.000	37.20	-26.34	63.54	26.85	38.41	6.52	34.58	Average	---	---
5	17475.000	45.72	-17.82	63.54	29.56	40.99	8.92	33.75	Average	---	---
6	17475.000	57.88	-25.66	83.54	41.72	40.99	8.92	33.75	Peak	---	---

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (108.85 dBuV/m).



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5755
N <sub>TX</sub>	2	Polarization	V



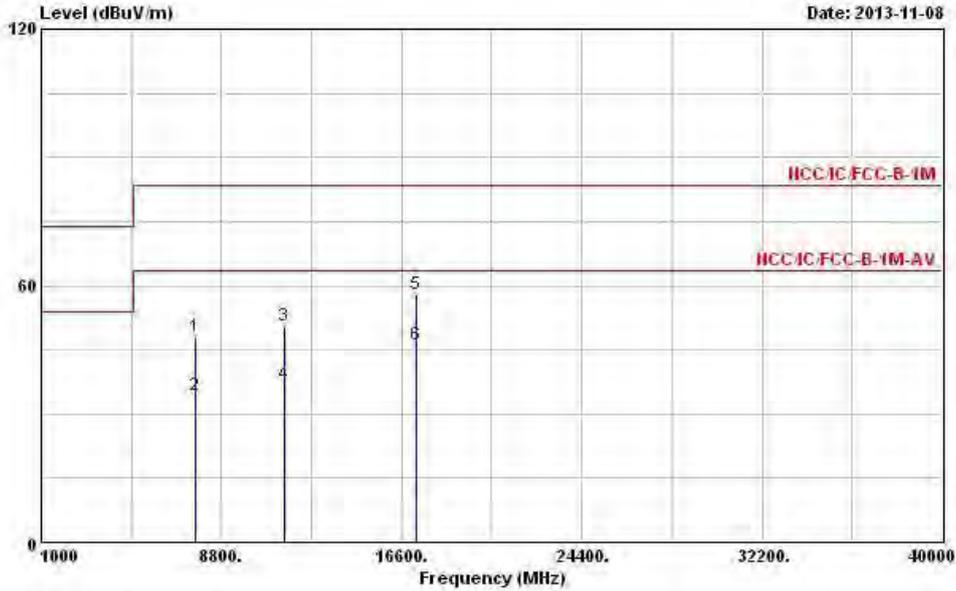
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Int Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7594.000	48.19	-35.35	83.54	42.27	35.30	5.64	35.02	Peak	---	---
2	7594.000	34.28	-29.26	63.54	28.36	35.30	5.64	35.02	Average	---	---
3	11510.000	53.50	-30.04	83.54	43.32	38.30	6.36	34.48	Peak	---	---
4	11510.000	40.14	-23.40	63.54	29.96	38.30	6.36	34.48	Average	---	---
5	17265.000	46.04	-17.50	63.54	29.98	40.95	8.95	33.84	Average	---	---
6	17265.000	58.37	-25.17	83.54	42.31	40.95	8.95	33.84	Peak	---	---

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (106.42 dBuV/m).



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5755
N <sub>TX</sub>	2	Polarization	H



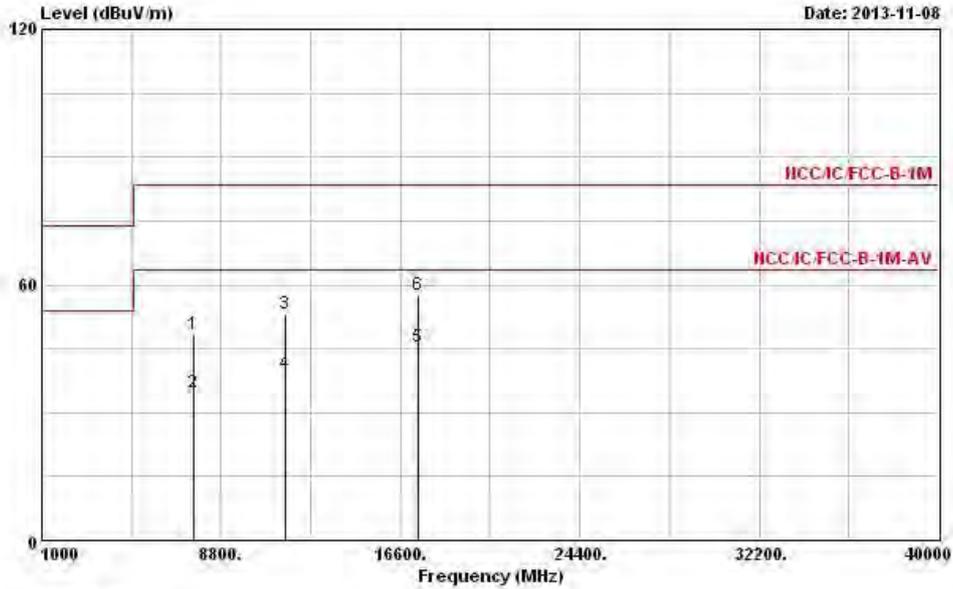
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7638.000	47.98	-35.56	83.54	42.10	35.30	5.61	35.03	Peak	---	---
2	7638.000	34.35	-29.19	63.54	28.47	35.30	5.61	35.03	Average	---	---
3	11510.000	50.61	-32.93	83.54	40.43	38.30	6.36	34.48	Peak	---	---
4	11510.000	36.82	-26.72	63.54	26.64	38.30	6.36	34.48	Average	---	---
5	17265.000	57.98	-25.56	83.54	41.92	40.95	8.95	33.84	Peak	---	---
6	17265.000	46.00	-17.54	63.54	29.94	40.95	8.95	33.84	Average	---	---

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (106.42 dBuV/m).



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5795
N <sub>TX</sub>	2	Polarization	V

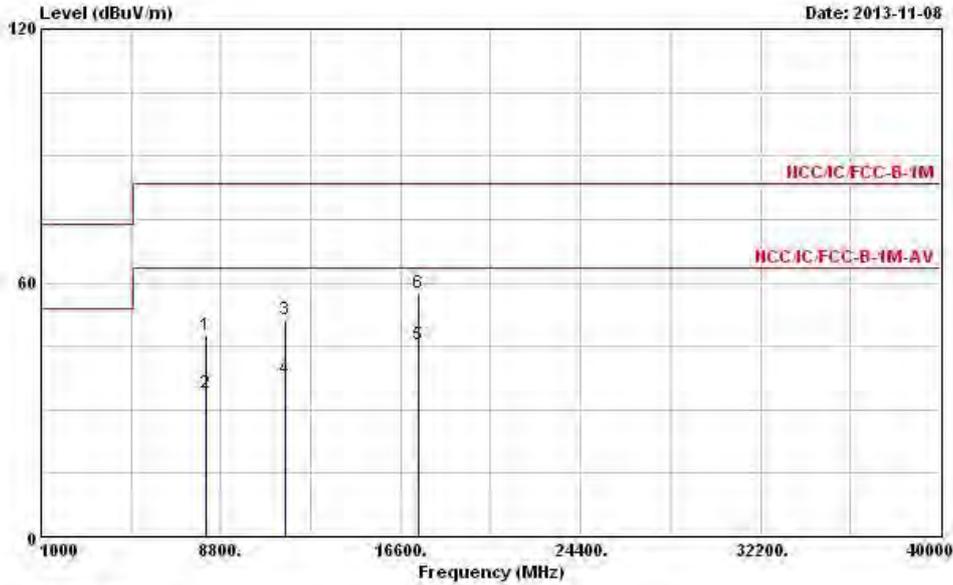


	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7594.000	48.32	-35.22	83.54	42.40	35.30	5.64	35.02	Peak	---	---
2	7594.000	34.70	-28.84	63.54	28.78	35.30	5.64	35.02	Average	---	---
3	11590.000	53.19	-30.35	83.54	42.87	38.37	6.48	34.53	Peak	---	---
4	11590.000	39.31	-24.23	63.54	28.99	38.37	6.48	34.53	Average	---	---
5	17385.000	45.46	-18.08	63.54	29.34	40.98	8.93	33.79	Average	---	---
6	17385.000	57.66	-25.88	83.54	41.54	40.98	8.93	33.79	Peak	---	---

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (106.91 dBuV/m).

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5795
N <sub>TX</sub>	2	Polarization	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8166.000	47.64	-35.90	83.54	42.01	35.40	5.37	35.14	Peak	---	---
2	8166.000	34.05	-29.49	63.54	28.42	35.40	5.37	35.14	Average	---	---
3	11590.000	51.24	-32.30	83.54	40.92	38.37	6.48	34.53	Peak	---	---
4	11590.000	37.29	-26.25	63.54	26.97	38.37	6.48	34.53	Average	---	---
5	17385.000	45.39	-18.15	63.54	29.27	40.98	8.93	33.79	Average	---	---
6	17385.000	57.77	-25.77	83.54	41.65	40.98	8.93	33.79	Peak	---	---

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (106.91 dBuV/m).



## 4 Test Equipment and Calibration Data

< Radiation emission below 1GHz >

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Spectrum Analyzer	R&S	FSP40	100593	9kHz ~ 40GHz	Sep. 14, 2012	Radiation (03CH02-HY)
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz ~ 1GHz 3m	May 11, 2013	Radiation (03CH02-HY)
Amplifier	Agilent	8447D	2944A11146	100kHz ~ 1.3GHz	Jul. 17, 2013	Radiation (03CH02-HY)
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz ~ 1GHz	Nov. 10, 2012	Radiation (03CH02-HY)
Bilog Antenna	SCHAFFNER	CBL61128	2723	30MHz ~ 2GHz	Oct. 22, 2012	Radiation (03CH02-HY)
Turn Table	Chaintek Instruments	3000	MF7802058	0~ 360 degree	N/A	Radiation (03CH02-HY)
Antenna Mast	MF	MF7802	MF780208205	1 ~ 4 m	N/A	Radiation (03CH02-HY)

Note: Calibration Interval of instruments listed above is one year.

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Loop Antenna	TESEQ	HLA 6120	31244	9 kHz - 30 MHz	Dec. 02, 2012	Radiation (03CH02-HY)

Note: Calibration Interval of instruments listed above is two year.



< Radiation emission above 1GHz >

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Spectrum Analyzer	R&S	FSP40	100593	9kHz ~ 40GHz	Oct. 03, 2013	Radiation (03CH02-HY)
Amplifier	Agilent	8449B	3008A02364	1GHz ~ 26.5GHz	May 06, 2013	Radiation (03CH02-HY)
Horn Antenna	ETS-LINDGREN	3117	00091920	1GHz ~ 18GHz	Nov. 16, 2012	Radiation (03CH02-HY)
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170154	15GHz ~ 40GHz	Jan. 08, 2013	Radiation (03CH02-HY)
RF Cable-high	SUHNER	SUCOFLEX106	03CH02-HY	1GHz ~ 40GHz	Mar. 05, 2013	Radiation (03CH02-HY)
Turn Table	Chaintek Instruments	3000	MF7802058	0~ 360 degree	N/A	Radiation (03CH02-HY)
Antenna Mast	MF	MF7802	MF780208205	1 ~ 4 m	N/A	Radiation (03CH02-HY)

Note: Calibration Interval of instruments listed above is one year.

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Amplifier	MITEQ	AMF-6F-260400	9121372	26.5GHz ~ 40GHz	Apr. 19, 2013	Radiation (03CH02-HY)

Note: Calibration Interval of instruments listed above is two year.